



SAFE LIFE SAVE

安全 生命 绿色

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四兄弟绳业
FOUR BROTHERS ROPE



CENTURY-OLD ENTERPRISE

十年树企 百年树业

帮助用户实现全生命周期的成本控制和安全保障
HELP USERS TO ACHIEVE COST CONTROL AND SECURITY ASSURANCE FULL LIFE CYCLE

FBR

综合解决方案提供商
SOLUTION PROVIDER

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PRODUCTION BASE 生产基地



浙江四兄绳业有限公司, 位于浙东沿海台州市境内, 历史可追溯到20世纪50年代植物纤维手工制绳时期, 历经祖孙三代的艰苦奋斗, 现已成为亚洲地区历史最悠久、规模最大、研发和制造综合实力最强的化纤绳索制造商之一, 企业秉承“追求一流品质, 打造百年品牌”的经营理念, 致力于“帮助用户实现全生命周期的成本控制和安全保障”, 赢得了包括中海油、中远海运、招商局、中国船舶集团等全球一流的油气开采公司、船舶制造和运营公司等长期客户的广泛好评。

“Zhejiang Four Brother Rope CO., LTD.(FBR), located in Taizhou -- a coastal city in eastern Zhejiang, its history can be traced back to the 1950s when rope was made by hand from natural fibers. After three generations of hard struggle, FBR has now become one of the oldest, largest and most powerful manufacturers of synthetic fiber ropes in Asia. FBR adhering to the management concept of "pursuit of first-class quality, to create a century-old brand", dedicated to help users achieve full life cycle cost control and security, and has won extensive praises from long-term customers including CNOOC, COSCO, shipping China Merchants, China shipping group, etc.”



研发中心
R&D CENTER

BRAND HISTORY 品牌历史



SINCE 1959

四兄, 六十年缆绳文化的传承与创新

- 1959 第一代创始人以植物纤维手工制绳
The first generation of founders made handmade rope from natural fiber in 1959.
- 1985 当代家主带领四子创办福利工厂
Contemporary homeowners lead the four sons to establish welfare factories in 1985
- 2003 上海办事处成立
Shanghai office established in 2003
- 2004 国际市场部成立
International Marketing Department established in 2004
- 2006 军品部成立
Military Product Department established in 2006
- 2007 海洋工程事业部成立
Establishment of Ocean Engineering Department in 2007
- 2009 研发中心成立
R&D center established in 2009
- 2017 四兄子公司“中绳科技成立”
Four Brothers Subsidiary Company "Zhongrope Science and Technology Chengdu"



THREE GENERATIONS FOR ONE ROPE 三代传承 坚守如一

COMPANY EVENTS

业绩大事记

参与神舟飞船返回舱海上应急救捞系统。
Take part in supporting project of SHENZHOU spaceship.



“LNH”航母系泊缆绳配套工程
The mooring rope for “LNH” aircraft carrier



为“雪龙2号”极地科考船提供配套缆绳
Ropes for “Xuelong 2” polar research vessel



2万箱超大型集装箱船配套高性能系泊缆绳。
(Supply high performance mooring ropes for 20000 TEU container vessel)



超高分子量聚乙烯缆绳应用于拖轮
The HMPE ropes applies to tug



定位锚缆应用于大型起重铺管船
The anchoring rope applies to pipelay vessel



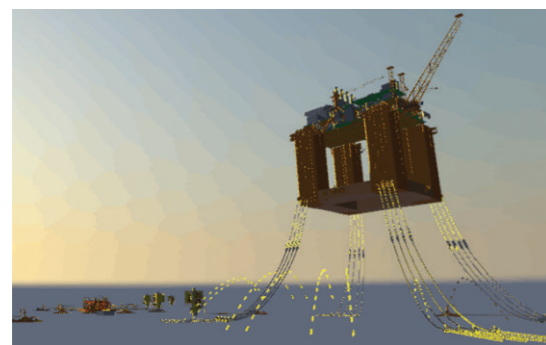
超高分子量聚乙烯缆绳应用于重型起吊
The HMPE rope applies to heavy lifting



为40万吨VLOC矿砂船提供超高分子量聚乙烯缆绳
HMPE ropes for 400,000-ton VLOC.



为30万吨VLCC油轮提供超高分子量聚乙烯缆绳
HMPE ropes for 300,000-ton VLCC



陵水17-2气田-中国首个半潜生产平台深水系泊缆绳项目
The first deep water mooring rope project in China for LS17-2 SEMI platform

TECHNOLOGY AND HONOR

技术与荣誉

专利 Patents



OUR CREDIBILITY

我们的荣誉

我公司化纤绳索综合研发和制造能力居亚洲领先，具备亚洲最大最专业的化纤绳索综合研发中心，可对纤维绳索的强力(2500吨)、疲劳、蠕变、磨损、老化、冲击、交变、防沙等各种性能进行测试和研究。公司是国家高新技术企业，参与起草了包括GB/T8834-2016《纤维绳索有关物理和机械性能测定》等在内的一系列重要的国家和行业标准，拥有几十项专利证书。公司和上海海事大学创建了“新材料、新技术、新应用”联合实验室，在海事大学设有“四兄中绳”奖学金，与上海化工研究院等科研院所建立了长期合作关系，是英国伦敦国际船东采购商组织IMPA会员，是美国绳索行业协会CI的成员单位，是中国潜水打捞行业协会会员，中国航海学会救助打捞专业委员会会员，极地航行和装备专业委员会委员，是中国水产标准化委员会等组织的成员单位，拥有“中国绳缆研发生产基地”等荣誉称号。

"FBR's comprehensive R&D and manufacturing capacity of synthetic fiber rope is leading in Asia. It has established the largest and most professional R&D center of synthetic fiber rope in Asia, which can test and study the strength (2500 tons), fatigue, creep, wearing, aging, impact, change, sand prevention and other performance of fiber rope. As a national high-tech enterprise, FBR has participated in drafting a series of important national and industrial standards including "Fiber ropes-Determination of certain physical and mechanical properties, GB/T8834-2016", and has dozens of patent certificates. FBR, together with Shanghai Maritime University, created a "new materials, new technology, new application" joint laboratory, and has "Four Brother Rope" scholarship in that university. FBR has established long-term cooperative relationship with research institutes such as Shanghai Chemical Industry Research Institute. FBR is a member of IMPA of the London International Shipowners' Buyers Organization and CI of the American Rope Industry Association, and also the member of China Diving Salvage Industry Association, Chinese Navigation Society Salvage and Salvage Professional Committee, Polar Navigation and Equipment Professional Committee and China Aquatic Standardization Committee, etc. and has won the honorary title of "Chinese Rope Research and Development Production Base."

公司在业内率先通过了ISO质量管理体系、环境管理体系、健康和安全管理体系等认证，拥有军工三证(承制、体系、保密)，不仅有CCS、DNV.GL、BV、NK、ABS、LR等各大船级社的船用缆绳认可证书，而且是中国地区，唯一同时获得ABS和DNV.GL两大国际船级社颁发的“海工深海系泊缆绳”专项型式认可证书的厂家。公司目前最大可生产单根直径不低于300mm(单根连续长度不低于3000M)，超大、超长、超强的化纤绳索，产品大量出口欧美市场，化纤绳索单项出口金额行业领先。

"FBR took the lead through the ISO quality system, environment system, health and safety system certification, with three military certificates, has won the CCS, DNV.GL, NK, BV, ABS, LR and other classification society of factory authorized certificates. Moreover, FBR is the only manufacturer in China that has obtained the special type approval certificate of offshore mooring rope issued by ABS and DNV.GL. At present, FBR can produce single fiber rope with the maximum diameter of no less than 300mm (single continuous length of no less than 3000M), super large, super long and super strong, and the products are exported to European and American markets in large quantities."



DEEP WATER MOORING ROPE

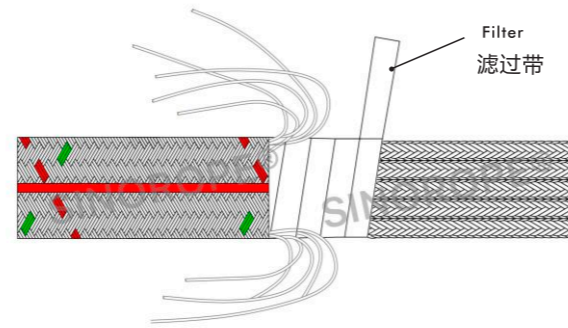
深海系泊缆绳

SINOROPE® 系列为平行结构缆绳,采用高强度海洋级纤维。缆绳包含内芯,过滤带和外层护套,产品设计全球领先。

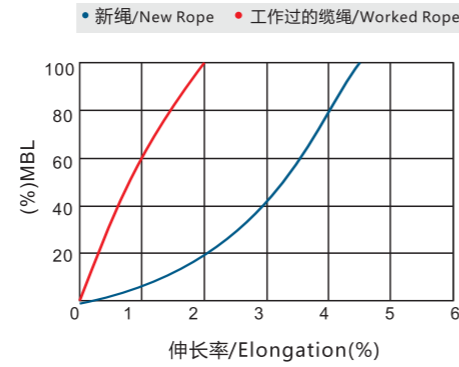
本产品还具备强度高,耐磨性好,抗泥沙,抗腐蚀和抗紫外线等特点,能有效应对各种海洋深水系泊的复杂环境。我司制造的SINOROPE®深海系泊缆绳产品,已在全球多个深海系泊项目中成功应用。

The SINOROPE® series is a parallel structure rope with high strength marine finished yarn. The rope has advanced design which contains core, filter and jacket.

SINOROPE® already successfully used in many projects over the world. This product with its high strength, good wear resistance, particle ingress resistance, corrosion resistant, UV resistance, which can fit for harsh conditions in the deep water mooring.



材料:内芯-超高分子量聚乙烯纤维(可选外套)	Materials: core- HMPE fiber, jacket(optional)
密度:0.97g/cm³	Specific Gravity:0.97g /cm³
熔点:145°C	Melting Point:145°C
耐磨性:非常好	Abrasion Resistance:Excellent
抗紫外线:非常好	UV Resistance:Excellent
抗化学腐蚀:好	Chemical Resistance: Good

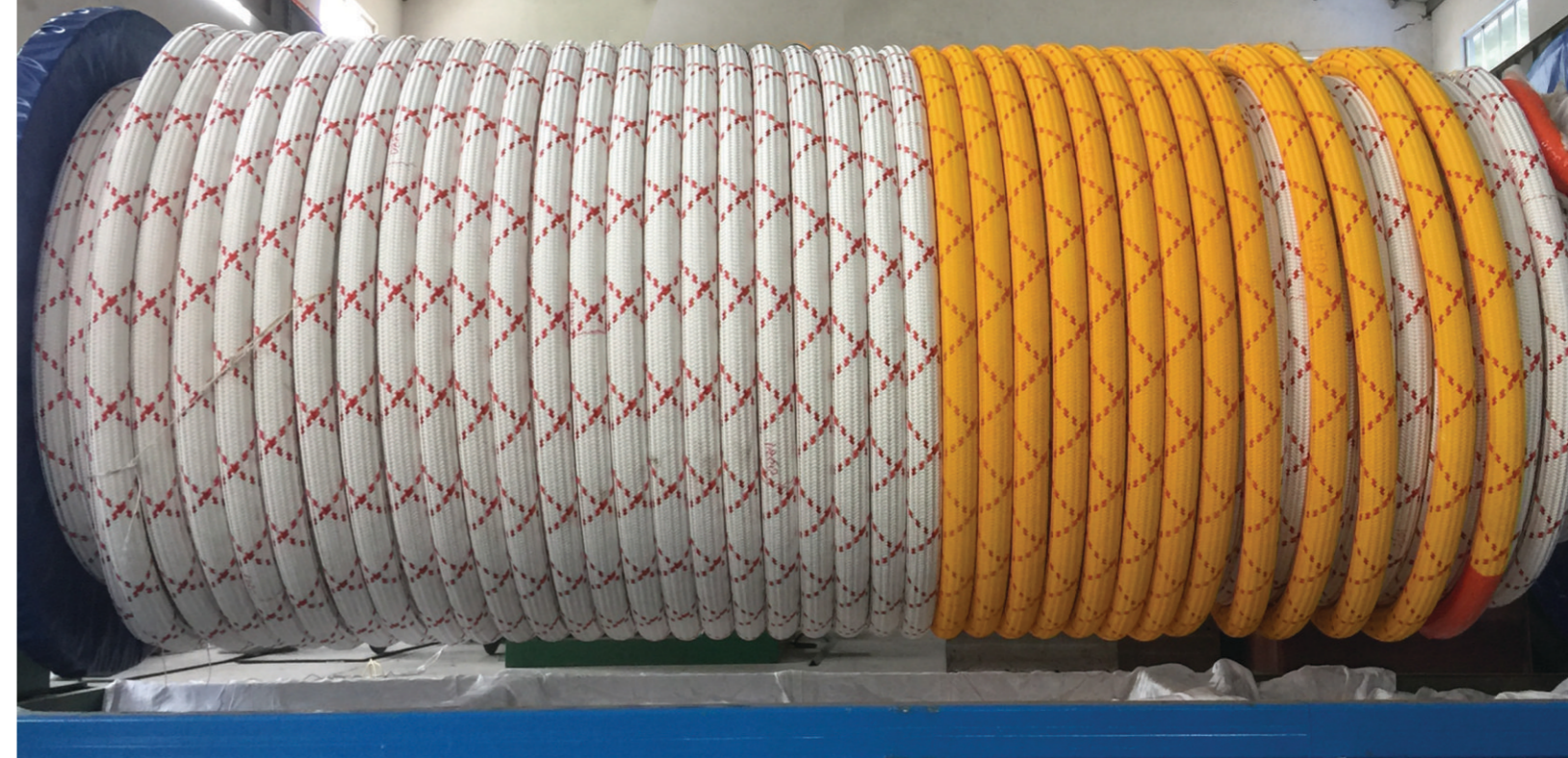


HMPE ROPE (PARALLEL)

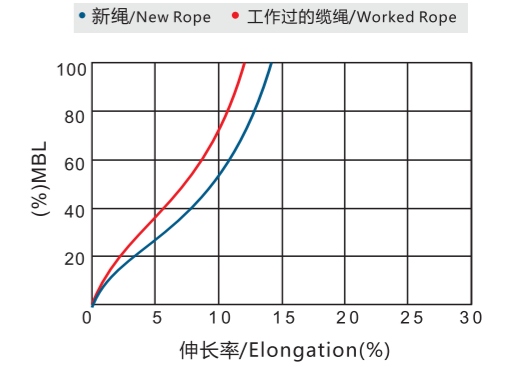
超高分子量聚乙烯缆绳(平行)

直径 Diameter	重量 Weight	断裂强力 Breaking Strength	
		kN	Ton
mm	kg/m		
76	2.6	2940	300
87	3.5	3920	400
97	4.4	4900	500
106	5.2	5880	600
116	6.1	6860	700
124	7.0	7840	800
130	7.8	8820	900
138	8.7	9800	1000
154	10.9	12250	1250
168	13.0	14700	1500
194	17.5	19600	2000

●如果需要其它尺寸,可以根据客户要求定制。 ●Other sizes are available upon request.



材料:内芯-聚酯纤维(可选外套)	Materials: core-polyester fiber, jacket(optional)
密度:1.38g/cm³	Specific Gravity:1.38g / cm³
熔点:251°C	Melting Point:251°C
耐磨性:非常好	Abrasion Resistance:Excellent
抗紫外线:非常好	UV Resistance: Excellent
抗化学腐蚀:好	Chemical Resistance: Good

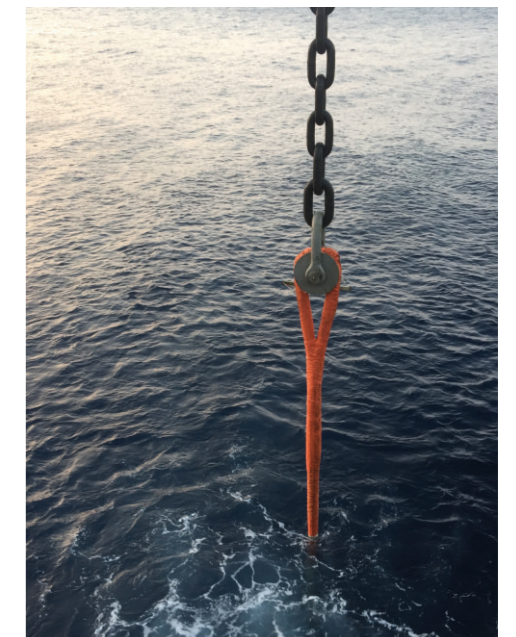


POLYESTER ROPE (PARALLEL)

聚酯缆绳(平行)

直径 Diameter	重量 Weight	断裂强力 Breaking Strength	
		kN	Ton
mm	kg/m		
168	19.0	7840	800
178	21.4	8820	900
186	23.8	9800	1000
196	26.1	10780	1100
202	28.5	11760	1200
208	30.4	12740	1300
218	33.1	13720	1400
224	35.0	14700	1500
232	37.7	15680	1600
238	39.7	16660	1700
246	42.4	17640	1800
252	44.4	18620	1900
260	47.0	19600	2000
266	49.7	20580	2100
274	52.3	21560	2200
280	54.7	22540	2300
286	57.1	23520	2400
290	59.2	24500	2500

●如果需要其它尺寸,可以根据客户要求定制。 ●Other sizes are available upon request.



SINGLE POINT MOORING ROPE

单点系泊缆绳

尼龙双编缆绳内芯为12股编织结构,外层包有编织护套。此结构耐磨好,强度高,为单点系泊的首选。缆绳两端眼环带金属保护套并有聚氨酯涂层保护,从而增加缆绳的耐磨性能。最后在缆绳上再加一定数量浮圈,以达到浮水的效果。

缆绳制造符合OCIMF2000标准要求。

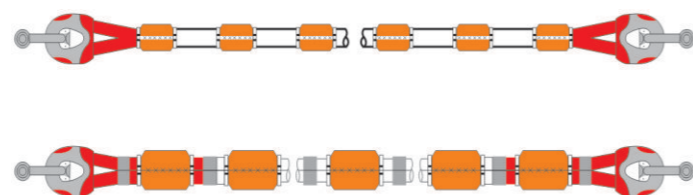
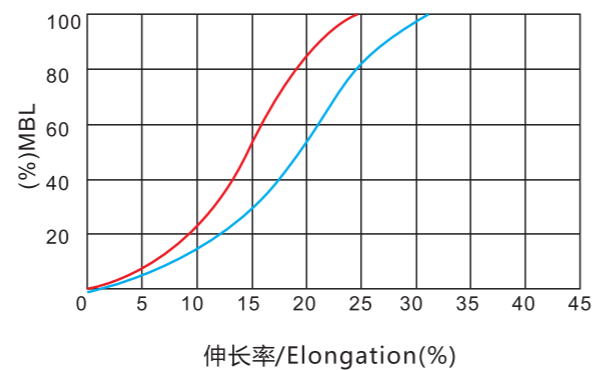
Polyamide double braid rope is made up of 12-strand core with a protective cover. This design keeps high strength and good abrasion resistance performance; it is first choice for single point mooring. Both end with galvanized cast thimble and polyurethane protect, it would raise the abrasion resistance performance of rope. At last, put enough floats one by one from the end to end.

The rope manufacturing meets the requirements of OCIMF 2000.

材料:锦纶(尼龙)	Materials : Polyamide(Nylon)
密度:1.14g/cm ³	Specific Gravity: 1.14g/cm ³
熔点:215°C	Melting Point :215°C
耐磨性:非常好	Abrasion Resistance:Excellent
抗紫外线:好	U V Resistance: Good
抗化学腐蚀:好	Chemical Resistance: Good



● 新绳/New Rope ● 工作过的缆绳/Worked Rope



POLYAMIDE(NYLON) DOUBLE BRAID ROPE

锦纶(尼龙)双编缆绳

直径 Diameter	周长 Circ	重量 Weight	断裂强力 Breaking Strength(Ton)	
			单根 Single Leg	环形 Grommet
mm	inch	kg/100m		
80	10	398	148	252
88	11	482	179	304
96	12	572	208	354
104	13	672	250	425
112	14	772	288	490
120	15	887	327	556
128	16	1010	368	626
136	17	1140	419	712
144	18	1280	460	782
152	19	1420	501	852
160	20	1580	551	937
168	21	1740	599	1018

●如果需要其它尺寸,可以根据客户要求定制。 ● Other sizes are available upon request.

FBR-POWERNEEMA® ROPE I/II/III

超高分子量聚乙烯缆绳I型II型III型

密度:0.97g/cm³	Specific Gravity:0.97g/cm³
熔点:145°C	Melting Point:145°C
伸长率:2.2%	Elongation:2.2%
耐磨性:非常好	Abrasion Resistance: Excellent
抗紫外线:非常好	UV Resistance: Excellent
抗化学腐蚀:好	Chemical Resistance: Good

该产品采用超高分子量聚乙烯纤维制作成绳,运用世界先进技术研发而成,具有强度高、重量轻、伸长率小、耐磨性好等显著特点。II和III型比I型更进一步提高了缆绳的耐磨性,使用寿命更持久,操作更方便、更快速、更安全。

超高强:同等直径时,强度与钢缆相同

低伸长率:破断伸长率接近钢缆

轻质:同等破断强力时,缆绳米重仅为钢缆的1/8,尼龙或涤纶绳的1/4~1/5,丙纶绳的18%~20%

小直径:同等破断强力时,直径为尼龙或涤纶绳的55%~60%、丙纶绳的45%

应用领域:港口拖带、超级油轮(VLCC)、超大型集装箱船、大型液化天然气船(LNG)、超级散货船(VLOC)的系泊、国防军队装备、海军装备、海洋工程、航天航空、体育器材、电力通讯、大型精密物件吊装等。

FBR-POWERNEEMA® Rope:

FBR-POWERNEEMA® Rope is produced with ultra high molecular weight polyethylene (HMPE) fiber and high technology. It is high strength, light weight, low elongation. Type II & III is more wearable than type I. So the service life of type II & III will be longer, and the operating is more convenient, fast and safe.

Stronger: Under the same diameter, the strength is the same as the Wire Rope.

Lower elongation: the breaking elongation is close to the Wire Rope.

Lighter: Under the same strength, the weight(g/m) is only 1/8 of the Wire Rope, 1/4-1/5 of the Nylon rope or Polyester Rope, 18%-20% of the Polypropylene Rope.

Smaller: Under the same strength, the diameter of the FBR-POWERNEEMA® Rope is 55%-60% of the Nylon rope or Polyester Rope, 45% of the Polypropylene Rope.

Application: Port towing, mooring system for ultra large container ships/ LNG/VLCC/VLOC, Army&Navy equipment, offshore, aerospace, sports equipment, electrical communications, large precision object sling, etc.

由1型到3型耐磨度
逐步增强
A breakthrough enhancement
of the abrasion resistance from
type I to type III.



8-STRAND AND 12-STRAND

八股、十二股参数表

尺寸 Size		重量 Weight		I型		I型		II型/III型		II型/III型	
				断裂强力* ISO MBF		断裂强力** MEG4 LDBF		断裂强力* ISO MBF		断裂强力** MEG4 LDBF	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton	千牛 kN	吨 ton	千牛 kN	吨 ton	千牛 kN	吨 ton
6	3/4	21	4.6	39	4.0	35	3.6				
8	1	40	8.8	71	7.3	64	6.5				
10	1-1/4	61	13.4	106	10.8	95	9.7				
12	1-1/2	83	18.3	150	15.3	135	13.8				
14	1-3/4	117	25.7	211	21.5	190	19.4				
16	2	151	33.2	267	27.2	240	24.5				
18	2-1/4	184	40.5	322	32.9	290	29.6				
20	2-1-2	227	49.9	384	39.2	346	35.3				
24	3	324	71.3	533	54.4	480	49.0				
28	3-1/2	444	97.7	704	71.9	634	64.7				
32	4	589	129.6	918	93.7	826	84.3				
36	4-1/2	720	158.4	1104	112.7	994	101.4	840	85.7	756	77.1
40	5	880	193.6	1329	135.6	1196	122.0	1027	104.8	924	94.3
42	5-1-4	979	215.4	1459	148.9	1313	134.0	1142	116.5	1028	104.9
44	5-1/2	1078	237.2	1589	162.1	1430	145.9	1258	128.3	1132	115.5
46	5-3/4	1171	257.6	1698	173.2	1528	155.9	1366	139.4	1230	125.5
48	6	1264	278.1	1807	184.4	1626	165.9	1475	150.5	1327	135.4
50	6-1/4	1388	305.4	1971	201.1	1774	181.0	1619	165.2	1457	148.7
52	6-1/2	1512	332.6	2136	217.9	1922	196.1	1764	180.0	1588	162.0
54	6-3/4	1636	359.9	2300	234.7	2070	211.2	1909	194.8	1718	175.3
56	7	1760	387.2	2464	251.5	2218	226.3	2053	209.5	1848	188.6
58	7-1/4	1885	414.7	2622	267.6	2360	240.8	2199	224.4	1979	202.0
60	7-1/2	2010	442.2	2778	283.4	2500	255.1	2345	239.3	2111	215.4
62	7-3/4	2135	469.7	2936	299.5	2642	269.6	2491	254.2	2242	228.8
64	8	2260	497.2	3092	315.5	2783	284.0	2637	269.0	2373	242.1
66	8-1/4	2423	533.1	3293	336.1	2964	302.4	2827	288.5	2544	259.6
68	8-1/2	2585	568.7	3496	356.7	3146	321.0	3016	307.7	2714	277.0
70	8-3/4	2748	604.6	3697	377.2	3327	339.5	3206	327.1	2885	294.4
72	9	2910	640.2	3898	397.7	3508	358.0	3395	346.4	3056	311.8
74	9-1/4	3065	674.3	4080	416.3	3672	374.7	3576	364.9	3218	328.4
76	9-1/2	3220	708.4	4263	435.0	3837	391.5	3757	383.3	3381	345.0
78	9-3/4	3375	742.5	4444	453.5	4000	408.2	3938	401.8	3544	361.6
80	10	3530	776.6	4628	472.2	4165	425.0	4118	420.2	3707	378.2
82	10-1/4	3708	815.8	4837	493.5	4353	444.2	4326	441.4	3893	397.3
84	10-1/2	3885	854.7	5047	515.0	4542	463.5	4533	462.5	4079	416.3
86	10-3/4	4063	893.9	5256	536.3	4730	482.7	4740	483.7	4266	435.3
88	11	4240	932.8	5464	557.6	4918	501.8	4947	504.8	4452	454.3
90	11-1/4	4430	974.6	5678	579.4	5110	521.4	5168	527.4	4652	474.6
92	11-1/2	4615	1015.3	5893	601.4	5304	541.2	5384	549.4	4846	494.5
94	11-3/4	4803	1056.7	6108	623.2	5497	560.9	5604	571.8	5043	514.6
96	12	4990	1097.8	6322	645.1	5690	580.6	5822	594.0	5240	534.6
100	12-1/2	5515	1213.3	6922	706.3	6230	635.7	6434	656.5	5791	590.9
104	13	6040	1328.8	7522	767.6	6770	690.8	7047	719.0	6342	647.1
120	15	7980	1755.6	9856	1005.7	8870	905.1	9311	950.1	8380	855.1

* MBF : Minimum Breaking Force according to ISO2307.

** LDBF: Line Design Break Force according to OCIMF MEG4 appendix B.

●如果需要其它尺寸,可以根据客户要求定制。 ●Other sizes are available upon request.

HMPE DOUBLE BRAIDED ROPE

超高分子量聚乙烯双层编织缆绳

HMPE DOUBLE BRAIDED ROPE

超高分子量聚乙烯双层编织缆绳

密度:0.97g/cm ³	Specific Gravity:0.97g/cm ³
熔点: 145°C	Melting Point :145°C
伸长率:2.2%	Elongation :2.2%
耐磨性:非常好	Abrasion Resistance :Excellent
抗紫外线:非常好	UV Resistance :Excellent
抗化学物质腐蚀:好	Chemical Resistance :Good

HMPE AND POLYESTER DOUBLE BRAIDED ROPE

超高分子量聚乙烯涤纶双层编织缆绳

密度:0.97/1.38g/cm ³	Specific Gravity:0.97/1.38g/cm ³
熔点: 145°C	Melting Point :145°C
伸长率:2.2%	Elongation:2.2%
耐磨性:好	Abrasion Resistance:Good
抗紫外线:好	UV Resistance:Good
抗化学物质腐蚀:好	Chemical Resistance:Good



HMPE DOUBLE BRAIDED ROPE

超高分子量聚乙烯双层编织缆绳

尺寸 Size		重量 Weight		断裂强度*		断裂强度** MEG4 LDBF	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton	千牛 kN	吨 ton
40	5	940	206.8	1140	116.3	1030	105.1
44	5-1/2	1150	253.0	1380	140.8	1240	126.5
48	6	1360	299.2	1610	164.3	1450	148.0
52	6-1/2	1600	352.0	1920	195.9	1730	176.5
56	7	1850	407.0	2190	223.5	1970	201.0
60	7-1/2	2120	466.4	2520	257.1	2270	231.6
64	8	2400	528.0	2880	293.9	2590	264.3
68	8-1/2	2720	598.4	3260	332.7	2930	299.0
72	9	3070	675.4	3630	370.4	3270	333.7
76	9-1/2	3400	748.0	4020	410.2	3620	369.4
80	10	3750	825.0	4510	460.2	4060	414.3
84	10-1/2	4125	907.5	4930	503.1	4440	453.1
88	11	4500	990.0	5350	545.9	4820	491.8
92	11-1/2	4900	1078.0	5815	593.4	5235	534.2
96	12	5300	1166.0	6280	640.8	5650	576.5

* MBF : Minimum Breaking Force according to ISO2307.

** LDBF: Line Design Break Force according to OCIMF MEG4 appendix B.

●如果需要其它尺寸,可以根据客户要求定制。 ● Other sizes are available upon request.

HMPE AND POLYESTER DOUBLE BRAIDED ROPE

超高分子量聚乙烯涤纶双层编织缆绳

尺寸 Size		重量 Weight		断裂强度*		断裂强度** MEG4 LDBF	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton	千牛 kN	吨 ton
40	5	1058	232.7	1140	116.3	1030	105.1
44	5-1/2	1290	283.8	1380	140.8	1240	126.5
48	6	1562	343.7	1610	164.3	1450	148.0
52	6-1/2	1854	408.0	1920	195.9	1730	176.5
56	7	2181	479.9	2190	223.5	1970	201.0
60	7-1/2	2546	560.1	2520	257.1	2270	231.6
64	8	2834	623.5	2880	293.9	2590	264.3
68	8-1/2	3206	705.3	3260	332.7	2930	299.0
72	9	3621	796.6	3630	370.4	3270	333.7
76	9-1/2	4085	898.7	4020	410.2	3620	369.4
80	10	4541	999.1	4510	460.2	4060	414.3
84	10-1/2	5007	1101.5	4930	503.1	4440	453.1
88	11	5495	1208.8	5350	545.9	4820	491.8
92	11-1/2	6020	1324.4	5815	593.4	5235	534.2
96	12	6557	1442.6	6280	640.8	5650	576.5

* MBF : Minimum Breaking Force according to ISO2307.

** LDBF: Line Design Break Force according to OCIMF MEG4 appendix B.

●如果需要其它尺寸,可以根据客户要求定制。 ● Other sizes are available upon request.

FBR-ARAMID ROPE

芳纶缆绳

密度:1.44g/cm³	Specific Gravity:1.44g/cm³ Immersed
熔点:450°C	Melting Point:450°C
伸长率:3.5%	Elongation:3.5%
耐磨性:一般	Abrasion Resistance: Normal
抗紫外线:弱	UV Resistance:Weak
抗化学腐蚀:很好	Chemical Resistance:Excellent

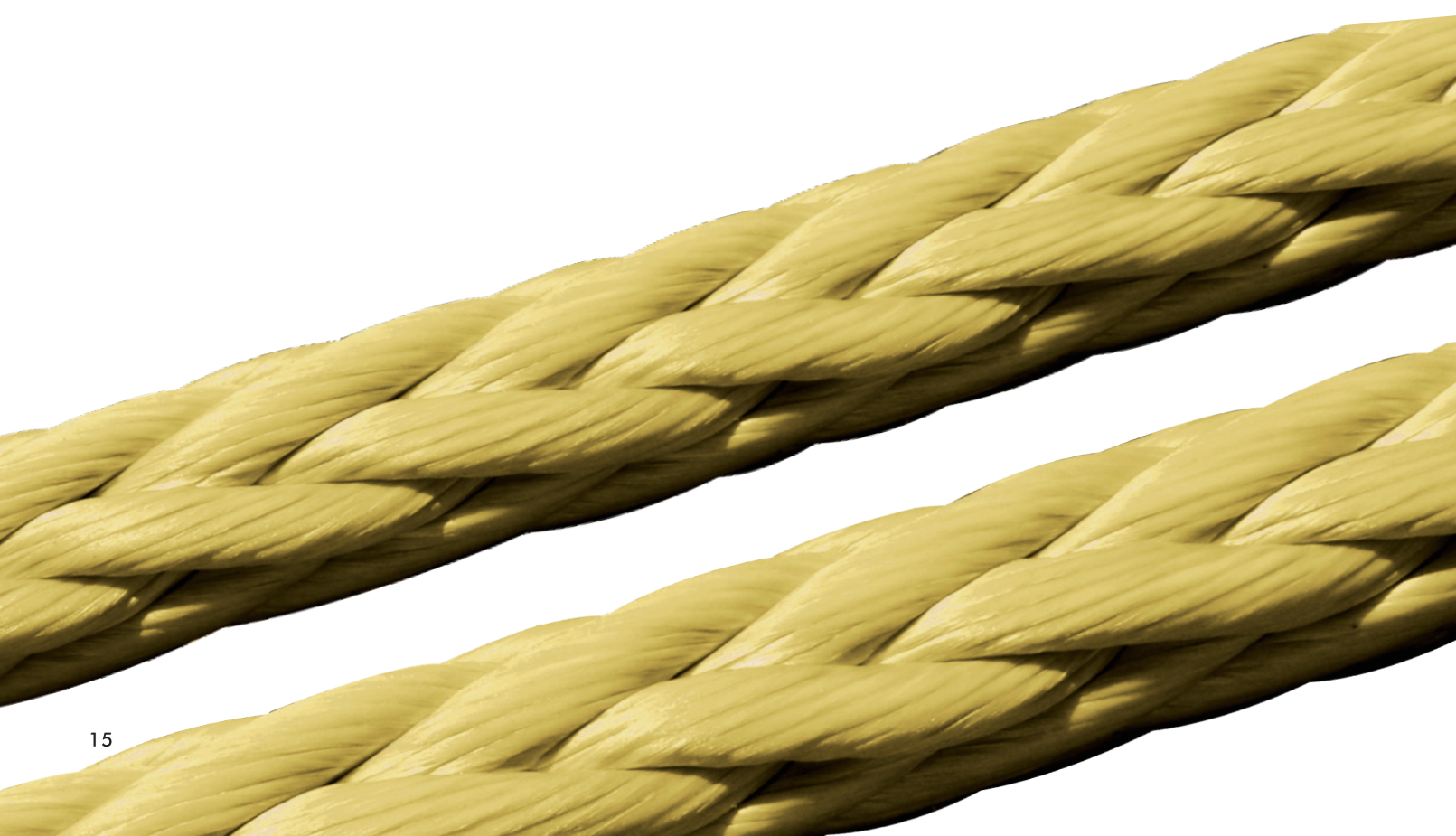
芳纶缆绳具有高强度,高模量和高耐高温特性。其强度是优质钢材的5-6倍,模量是钢材或玻璃纤维的2-3倍,韧性是钢材的2倍,而重量仅为钢材的1/5.具有良好的绝缘性和抗腐蚀性,生命周期较长。抗拉强度高,伸长小,破断力高,耐温差性能强。

应用领域:防火系泊缆,光纤电缆,军工特种用途等。

FBR-ARAMID ROPE:

It has features of high strength, high modulus and high temperature resistant. Its strength is 5-6 times as high quality steel, its modulus is 2-3 times as steel or fiberglass, its toughness is 2 times as steel, and its weight is only 1/5 of steel. It has longer life, good insulation and corrosion resistance. It has the best performance based on high tensile strength, small elongation, high breaking strength, fiber-optic cables, military special purpose, etc.

Application: Fire mooring lines, fiber optic cables, military special applications, etc.



8-STRAND AND 12-STRAND

八股、十二股参数表

尺寸 Size		重量 Weight		断裂强力* ISO MBF		断裂强力** MEG4 LDBF	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton	千牛 kN	吨 ton
6	3/4	30	6.6	21	2.2	19	1.9
10	1-1/4	81	17.8	61	6.2	55	5.6
14	1-3/4	165	36.3	114	11.6	103	10.5
18	2-1/4	265	58.3	191	19.5	172	17.6
22	2-3/4	395	86.9	285	29.1	257	26.2
26	3-1/4	547	120.3	409	41.8	369	37.6
30	3-3/4	731	160.8	538	54.9	484	49.4
34	4-1/4	940	206.8	623	63.6	561	57.2
38	4-3/4	1170	257.4	721	73.6	649	66.2
42	5-1/4	1430	314.6	880	89.8	792	80.9
46	5-3/4	1715	377.3	1055	107.7	950	96.9
50	6-1/4	2025	445.5	1244	127.0	1120	114.3
54	6-3/4	2365	520.3	1456	148.6	1310	133.7
58	7-1/4	2725	599.5	1678	171.2	1510	154.1
62	7-3/4	3110	684.2	1911	195.0	1720	175.5
66	8-1/4	3530	776.6	2169	221.3	1953	199.2
70	8-3/4	3970	873.4	2442	249.1	2198	224.2
74	9-1/4	4438	976.3	2731	278.6	2458	250.8
78	9-3/4	4933	1085.2	3036	309.8	2733	278.9
82	10-1/4	5453	1199.6	3356	342.4	3020	308.2
86	10-3/4	5998	1319.5	3689	376.4	3320	338.8
90	11-1/4	6568	1444.9	4039	412.1	3635	370.9
94	11-3/4	7163	1575.8	4406	449.5	3965	404.6
98	12-1/4	7783	1712.2	4789	488.6	4310	439.8
102	12-3/4	8428	1854.1	5189	529.5	4670	476.5

* MBF : Minimum Breaking Force according to ISO2307.

** LDBF: Line Design Break Force according to OCIMF MEG4 appendix B.

●如果需要其它尺寸,可以根据客户要求定制。 ● Other sizes are available upon request.

FBR-POWERNYLON® ROPE I/II

尼龙缆绳I型II型

密度:1.14g/cm³	Specific Gravity :1.14g/cm³ Immersed
熔点:215°C	Melting Point :215°C
伸长率:23%	Elongation : 23%
耐磨性:很好	Abrasion Resistance : Excellent
抗紫外线:好	UV Resistance : Good
抗化学腐蚀:好	Chemical Resistance : Good

尼龙缆绳8/12股I/II型

该产品吸水,强度高,伸长率大,耐磨性好,相对其他化纤缆绳吸震性更为优秀,拥有较长的寿命,对于化学腐蚀,紫外线等拥有非常好的耐性。

应用领域:船用系泊,海军舰船,远洋渔业,深浅海养殖。

FBR-POWERNYLON® ROPEI/II

This product absorbs water and is with high strength, great elongation rate and good abrasion resistance. Compared with other chemical fiber ropes, it's with best shock absorption, longer service life, and better resistance to UV and other corrosion.

Application: Ship mooring, navy ships, pelagic fishing, sea farming.



8-STRAND AND 12-STRAND

八股、十二股参数表

尺寸 Size		重量 Weight		I型		I型		II型		II型	
				断裂强力* ISO MBF		断裂强力** MEG4 LDBF		断裂强力* ISO MBF		断裂强力** MEG4 LDBF	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton	千牛 kN	吨 ton	千牛 kN	吨 ton	千牛 kN	吨 ton
24	3	355	78.1	127	12.9	114	11.6				
28	3-1/2	485	106.7	184	18.8	166	16.9				
32	4	630	138.6	235	23.9	211	21.5				
36	4-1/2	830	182.6	296	30.2	266	27.2				
40	5	1000	220.0	350	35.7	315	32.1	463	47.3	417	42.6
44	5-1/2	1210	266.2	417	42.5	375	38.3	560	57.2	504	51.4
45	5-5/8	1248	274.6	437	44.6	393	40.1	584	59.6	526	53.6
48	6	1430	314.6	501	51.1	450	46.0	656	66.9	590	60.2
50	6-1/4	1535	337.7	537	54.8	484	49.3	716	73.1	645	65.8
52	6-1/2	1680	369.6	588	60.0	529	54.0	777	79.3	700	71.4
55	6-7/8	1862	409.6	621	63.3	559	57.0	886	90.4	797	81.3
56	7	2010	442.2	670	68.4	603	61.5	922	94.1	830	84.7
60	7-1/2	2260	497.2	751	76.6	676	69.0	1032	105.3	929	94.7
64	8	2520	554.4	840	85.7	756	77.1	1134	115.7	1021	104.1
65	8-1/8	2600	572.0	867	88.4	780	79.6	1170	119.4	1053	107.4
68	8-1/2	2860	629.2	953	97.3	858	87.6	1287	131.3	1158	118.2
70	8-3/4	3020	664.4	1000	102.0	900	91.8	1359	138.7	1223	124.8
72	9	3300	726.0	1063	108.5	957	97.7	1485	151.5	1337	136.4
75	9-3/8	3460	761.2	1115	113.8	1003	102.4	1557	158.9	1401	143.0
80	10	4030	886.6	1321	134.8	1189	121.3	1814	185.1	1632	166.5
85	10-5/8	4450	979.0	1473	150.4	1326	135.3	2003	204.3	1802	183.9
88	11	4780	1051.6	1583	161.5	1424	145.4	2055	209.7	1850	188.8
90	11-1/4	4990	1097.8	1652	168.6	1487	151.7	2146	218.9	1931	197.1
95	11-7/8	5560	1223.2	1841	187.9	1657	169.1	2280	232.6	2052	209.4
96	12	5690	1251.8	1890	192.9	1701	173.6	2333	238.1	2100	214.2
100	12-1/2	6160	1355.2	2033	207.4	1830	186.7	2526	257.7	2273	231.9
104	13	6660	1465.2	2131	217.5	1918	195.7	2731	278.6	2458	250.8
112	14	7720	1698.4	2488	253.8	2239	228.4	3165	323.0	2849	290.7
120	15	8870	1951.4	2779	283.6	2501	255.2	3548	362.0	3193	325.8

* MBF : Minimum Breaking Force according to ISO2307.

** LDBF: Line Design Break Force according to OCIMF MEG4 appendix B.

●如果需要其它尺寸,可以根据客户要求定制。 ●Other sizes are available upon request.

FBR-POWER-WINCHLINE® ROPE I / II

高性能尼龙单丝复合缆绳I型/尼龙单丝复合缆绳II型

密度:1.14g/cm³	Specific Gravity :1.14g/cm³ Immersed
熔点:215°C	Melting Point :215°C
伸长率:23%	Elongation : 23%
耐磨性:很好	Abrasion Resistance : Excellent
抗紫外线:好	UV Resistance :Good
抗化学腐蚀:好	Chemical Resistance :Good

高性能尼龙单丝复合缆绳 I 型:

FBR-POWER-WINCHLINE® ROPE I 缆绳, 习惯称为“牛筋绳”, 选用优质进口尼龙单丝, 运用世界领先的工艺技术生产, 比国内同类产品更轻, 更强, 更久, 伸长更大, 维护简单、操作方便, 真正达到世界一流质量的产品。其中, 牛筋绳12股结构比6股结构性能更加稳定。

尼龙单丝复合缆绳 II 型:

FBR-POWER-WINCHLINE® ROPE II 缆绳, 习惯称为“牛筋绳”, 选用优质国产尼龙单丝, 运用世界领先的工艺技术生产, 比国内同类产品更耐用, 操作方便, 真正达到世界一流质量的产品。其中, 牛筋绳12股结构比6股结构性能更加稳定。

应用领域: 船用系泊, 自动缆车。

FBR-POWER-WINCHLINE® ROPE I:

It is similar to "Atlas" rope, which is made of high quality imported nylon monofilament. With the world's leading technology, the rope is lighter, stronger, longer service life, greater elongation than the same category of domestic product. It is truly a product with world-class quality.

FBR-POWER-WINCHLINE® ROPE II:

It is similar to "Atlas" rope, which is made of high quality nylon monofilament. With the world's leading technology, the rope is lighter, stronger, longer service life, greater elongation than the same category of domestic product. It is truly a product with world-class quality.

Application: Ship mooring, automatic cable car.



I 6-STRAND AND 12-STRAND

I型 六股、十二股参数表

尺寸 Size		重量 Weight		I型断裂强力	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton
40	5	1040	229	304	31.0
44	5-1/2	1250	275	412	42.0
48	6	1480	326	490	50.0
52	6-1/2	1640	361	531	54.2
56	7	2000	440	651	66.4
60	7-1/2	2160	475	686	70.0
62	7-3/4	2350	517	784	80.0
64	8	2450	539	795	81.1
68	8-1/2	2810	619	925	94.4
70	8-3/4	3110	684	1010	103.0
72	9	3250	715	1040	106.1
78	9-3/4	3770	829	1180	120.4
84	10-1/2	4270	939	1380	141.0
90	11-1/4	5040	1109	1620	165.3
96	12	5860	1289	1870	191.0

●如果需要其它尺寸,可以根据客户要求定制。 ● Other sizes are available upon request.

II 6-STRAND AND 12-STRAND

II型 六股、十二股参数表

尺寸 Size		重量 Weight		II型断裂强力	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton
40	5	1030	227	275	28.1
44	5-1/2	1250	275	333	34.0
48	6	1470	324	392	40.0
52	6-1/2	1720	379	454	46.3
56	7	2020	444	520	53.0
60	7-1/2	2320	510	606	61.0
62	7-3/4	2470	543	637	65.0
64	8	2630	579	669	68.0
68	8-1/2	2990	658	753	76.8
70	8-3/4	3160	695	794	81.0
72	9	3340	735	836	85.3
78	9-3/4	3940	867	986	100.6
84	10-1/2	4570	1005	1140	116.3
90	11-1/4	5240	1153	1310	133.6
96	12	5950	1310	1460	149.0

●如果需要其它尺寸,可以根据客户要求定制。 ● Other sizes are available upon request.

FBR-POLYESTER ROPE I/II

涤纶缆绳 I型 II型



密度: 1.38g/cm³	Specific Gravity : 1.38g/cm³ Immersed
熔点: 260°C	Melting Point : 260 °C
伸长率: 13%	Elongation: 13%
耐磨性: 好	Abrasion Resistance: Good
抗紫外线: 好	UV Resistance: Good
抗化学腐蚀: 好	Chemical Resistance: Good

涤纶缆绳 I 型/II 型:
在所有化学纤维和植物纤维缆绳中, 拥有最好的耐老化性。性能稳定, 耐磨损, 耐化学腐蚀性好。吸水, 在湿态时保持和干态时一致的伸长率和强度。

应用领域: 船用系泊, 远洋渔业, 深浅海养殖

FBR-POLYESTER ROPE I/II:

In all kinds of the chemical fiber and natural fiber ropes, it's with the best UV resistance. It's owns stable chemical performance, good abrasion and chemical corrosion resistance. It absorbs water and keeps same elongation rate and strength when it's under wet condition.

Application: Marine mooring, pelagic fishery, sea farming

8-STRAND AND 12-STRAND

八股、十二股参数表

尺寸 Size		重量 Weight		I型		I型		II型		II型	
				断裂强力* ISO MBF		断裂强力** MEG4 LDBF		断裂强力* ISO MBF		断裂强力** MEG4 LDBF	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton	千牛 kN	吨 ton	千牛 kN	吨 ton	千牛 kN	吨 ton
24	3	437	96.1	119	12.1	109	11.1				
28	3-1/2	594	130.7	161	16.5	149	15.2				
32	4	778	171.2	211	21.6	195	19.8				
36	4-1/2	982	216.0	267	27.2	246	25.1				
40	5	1210	266.2	329	33.6	303	30.9	460	46.9	414	42.2
44	5-1/2	1470	323.4	399	40.8	368	37.5	559	57.0	503	51.3
45	5-5/8	1538	338.4	418	42.6	385	39.2	584	59.6	526	53.7
48	6	1750	385.0	476	48.5	438	44.6	665	67.9	599	61.1
50	6-1/4	1895	416.9	515	52.5	474	48.3	720	73.5	648	66.1
52	6-1/2	2050	451.0	557	56.8	513	52.3	779	79.5	701	71.5
55	6-7/8	2300	506.0	625	63.8	575	58.7	874	89.2	787	80.3
56	7	2380	523.6	647	66.0	595	60.7	904	92.3	814	83.1
60	7-1/2	2730	600.6	742	75.7	683	69.6	1037	105.9	934	95.3
64	8	3110	684.2	845	86.2	778	79.3	1182	120.6	1064	108.5
65	8-1/8	3210	706.2	872	89.0	803	81.9	1220	124.5	1098	112.0
68	8-1/2	3510	772.2	954	97.3	878	89.5	1334	136.1	1200	122.5
70	8-3/4	3715	817.3	1010	103.0	929	94.8	1412	144.1	1271	129.6
72	9	3930	864.6	1068	109.0	983	100.3	1493	152.4	1344	137.1
75	9-3/8	4263	937.9	1158	118.2	1066	108.8	1620	165.3	1458	148.8
80	10	4850	1067.0	1318	134.5	1213	123.7	1843	188.1	1659	169.3
85	10-5/8	5480	1205.6	1489	152.0	1370	139.8	2082	212.5	1874	191.2
88	11	5870	1291.4	1595	162.8	1468	149.7	2231	227.6	2008	204.9
90	11-1/4	6140	1350.8	1668	170.3	1535	156.6	2333	238.1	2100	214.3
95	11-7/8	6850	1507.0	1861	189.9	1713	174.7	2398	244.6	2158	220.2
96	12	6990	1537.8	1899	193.8	1748	178.3	2447	249.6	2202	224.7
100	12-1/2	7580	1667.6	2060	210.2	1895	193.4	2653	270.7	2388	243.6
104	13	8200	1804.0	2139	218.3	1968	200.8	2870	292.9	2583	263.6
112	14	9500	2090.0	2478	252.9	2280	232.7	3325	339.3	2993	305.4
120	15	10900	2398.0	2843	290.2	2616	266.9	3815	389.3	3434	350.4

* MBF : Minimum Breaking Force according to ISO2307.

** LDBF: Line Design Break Force according to OCIMF MEG4 appendix B.

●如果需要其它尺寸,可以根据客户要求定制。 ● Other sizes are available upon request.

FBR-POWER-MIXED® ROPE I

高性能聚酯聚丙烯混合缆绳I型



密度:<1.0g/cm³	Specific Gravity :<1.0g/cm³ floating
熔点:165°C/260°C	Melting Point:165°C / 260°C
伸长率:15%	Elongation:15%
耐磨性:很好	Abrasion Resistance:Excellent
抗紫外线:好	UV Resistance :Good
抗化学腐蚀:好	Chemical Resistance : Good

高性能聚酯聚丙烯混合缆绳:

代替传统尼龙绳, 沥水性好, 使用方便, 耐磨性很好, 抗海水腐蚀, 高强度, 防静电, 使用寿命长。

应用领域: 港口拖带、油轮、沥青船、化学品船、大型散货船舶, 远洋渔业等领域。

FBR-POWER-MIXED® ROPE I:

It has very good abrasion resistance, sea water corrosion resistance, high strength, antistatic and long service life. It is applied in port towing, oil tanker, asphalt tanker, chemical tanker, large bulk cargo ship, pelagic fishing, etc.

Application: Port towing, oil tankers, asphalt ships, chemical tankers, large bulk carriers, offshore fishing and other fields.

8-STRAND AND 12-STRAND

八股、十二股参数表

尺寸 Size		重量 Weight		断裂强力* ISO MBF		断裂强力** MEG4 LDBF	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton	千牛 kN	吨 ton
24	3	279	61.4	106	10.8	96	9.8
28	3-1/2	380	83.6	148	15.1	133	13.6
32	4	497	109.3	190	19.4	171	17.5
36	4-1/2	629	138.4	239	24.4	215	22.0
40	5	776	170.7	293	29.9	263	26.9
44	5-1/2	939	206.6	351	35.8	316	32.2
45	5-5/8	982	216.0	367	37.4	330	33.7
48	6	1110	244.2	415	42.3	373	38.1
50	6-1/4	1215	267.3	465	47.4	418	42.7
52	6-1/2	1320	290.4	483	49.3	435	44.3
55	6-7/8	1470	323.4	539	55.0	485	49.5
56	7	1520	334.4	557	56.8	501	51.1
60	7-1/2	1750	385.0	636	64.8	572	58.4
64	8	1990	437.8	719	73.3	647	66.0
65	8-1/8	2055	452.1	740	75.5	666	68.0
68	8-1/2	2250	495.0	805	82.2	725	73.9
70	8-3/4	2385	524.7	867	88.4	780	79.6
72	9	2520	554.4	899	91.7	809	82.5
75	9-3/8	2748	604.6	982	100.2	884	90.2
80	10	3110	684.2	1097	111.9	987	100.7
85	10-5/8	3510	772.2	1237	126.2	1113	113.6
88	11	3750	825.0	1321	134.8	1189	121.3
90	11-1/4	3930	864.6	1392	142.0	1253	127.8
95	11-3/4	4398	967.6	1539	157.0	1385	141.3
96	12	4470	983.4	1560	159.2	1404	143.3
100	12-1/2	4865	1070.3	1686	172.0	1517	154.8
104	13	5260	1157.2	1811	184.8	1630	166.3
112	14	6050	1331.0	2096	213.8	1886	192.4
120	15	6980	1535.6	2392	244.0	2153	219.6

* MBF: Minimum Breaking Force according to ISO2307.

** LDBF: Line Design Break Force according to OCIMF MEG4 appendix B.

●如果需要其它尺寸,可以根据客户要求定制。 ● Other sizes are available upon request.

FBR-POWER-MIXED® ROPE II

高性能聚酯聚丙烯混合缆绳II型



密度:<1.0	Specific Gravity :<1.0 floating
熔点:165°C/260°C	Melting Point : 165°C / 260°C
伸长率:15%	Elongation : 15%
耐磨性:很好	Abrasion Resistance : Excellent
抗紫外线:好	UV Resistance : Good
抗化学腐蚀:好	Chemical Resistance : Good

高性能聚酯聚丙烯混合缆绳II型

代替传统尼龙绳, 沥水性好, 使用方便, 耐磨性很好, 抗海水腐蚀, 高强度, 防静电, 使用寿命长。

应用领域: 港口拖带、油轮、沥青船、化学品船、大型散货船舶, 远洋渔业等领域。

FBR-POWER-MIXED® ROPE II:

It has very good abrasion resistance, sea water corrosion resistance, high strength, antistatic and long service life. It is applied in port towing, oil tanker, asphalt tanker, chemical tanker, large bulk cargo ship, pelagic fishing, etc.

Application: Port towing, oil tankers, asphalt ships, chemical tankers, large bulk carriers, offshore fishing and other fields.

8-STRAND AND 12-STRAND

八股、十二股参数表

尺寸 Size		重量 Weight		断裂强力* ISO MBF		断裂强力** MEG4 LDBF	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton	千牛 kN	吨 ton
24	3	334	73.5	123	12.5	110	11.3
28	3-1/2	455	100.1	163	16.6	147	15.0
32	4	594	130.7	209	21.3	188	19.2
36	4-1/2	742	163.2	273	27.8	245	25.0
40	5	915	201.3	330	33.6	297	30.3
44	5-1/2	1090	239.8	392	40.0	353	36.0
45	5-5/8	1148	252.6	408	41.6	367	37.4
48	6	1320	290.4	453	46.2	408	41.6
50	6-1/4	1410	310.2	490	49.9	441	45.0
52	6-1/2	1500	330.0	526	53.7	473	48.3
55	6-7/8	1718	378.0	588	60.0	529	54.0
56	7	1790	393.8	608	62.1	547	55.9
60	7-1/2	2005	441.1	692	70.6	622	63.5
64	8	2260	497.2	775	79.1	698	71.2
65	8-1/8	2330	512.6	798	81.5	718	73.3
68	8-1/2	2540	558.8	868	88.6	781	79.7
70	8-3/4	2690	591.8	920	93.8	828	84.5
72	9	2840	624.8	971	99.1	874	89.2
75	9-3/8	3080	677.6	1048	107.0	944	96.3
80	10	3490	767.8	1177	120.1	1059	108.1
85	10-5/8	3933	865.3	1330	135.8	1197	122.2
88	11	4200	924.0	1422	145.1	1280	130.6
90	11-1/4	4400	968.0	1489	151.9	1340	136.7
95	11-3/4	4900	1078.0	1654	168.8	1489	151.9
96	12	5000	1100.0	1687	172.2	1519	155.0
100	12-1/2	5430	1194.6	1834	187.2	1651	168.5
104	13	5860	1289.2	1982	202.2	1783	182.0
112	14	6740	1482.8	2286	233.2	2057	209.9
120	15	7740	1702.8	2609	266.3	2348	239.6

* MBF: Minimum Breaking Force according to ISO2307.

** LDBF: Line Design Break Force according to OCIMF MEG4 appendix B.

●如果需要其它尺寸,可以根据客户要求定制。 ● Other sizes are available upon request.

FBR-POWERDAN® ROPE

高性能丙纶缆绳

密度:0.91g/cm³	Specific Gravity:0.91g/cm³ floating
熔点:165°C	Melting Point :165°C
伸长率:14%	Elongation :14%
耐磨性:好	Abrasion Resistance :Good
抗紫外线:好	UV Resistance :Good
抗化学腐蚀:好	Chemical Resistance:Good

高性能丙纶缆绳:

本产品由特殊的高质量聚丙烯和聚乙烯原料生产纤维制造绳索,以其优秀的性能和性价比在世界范围内被广泛使用。同类产品在国际上有很多命名,如:Danline, Polyolefin等,该产品比常规丙纶缆绳拉力高30%,更耐磨,拥有更长的使用寿命。

应用领域:船舶系泊、港口拖带、深海养殖、远洋捕捞。

FBR-POWERDAN® ROPE

This product is made by special high quality mixed PP/PE fiber and widely used in worldwide for its high performance and has competitive price. It's also called as "DANLINE" or "POLYOLEFIN". The FBR-POWERDAN® Rope is with 30% higher MBL than normal PP rope, and it's also with better abrasion resistance, UV resistance, and longer service life.

Application: Ship mooring system, port towing, pelagic fishing, sea farming.



8-STRAND AND 12-STRAND

八股、十二股参数表

尺寸 Size		重量 Weight		断裂强力* ISO MBF		断裂强力** MEG4 LDBF	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton	千牛 kN	吨 ton
24	3	274	60.3	118	12.0	106	10.8
28	3-1/2	372	81.8	155	15.9	140	14.3
32	4	487	107.1	192	19.6	173	17.6
36	4-1/2	618	136.0	240	24.5	216	22.1
40	5	762	167.6	300	30.6	270	27.5
44	5-1/2	920	202.4	357	36.4	321	32.8
45	5-5/8	968	213.0	371	37.9	334	34.1
48	6	1092	240.2	415	42.3	374	38.1
50	6-1/4	1195	262.9	453	46.3	408	41.6
52	6-1/2	1281	281.8	492	50.2	443	45.2
55	6-7/8	1445	317.9	535	54.6	482	49.2
56	7	1491	328.0	550	56.1	495	50.5
60	7-1/2	1711	376.4	635	64.8	571	58.3
64	8	1953	429.7	710	72.4	639	65.2
65	8-1/8	2018	444.0	732	74.7	659	67.3
68	8-1/2	2205	485.1	799	81.6	719	73.4
70	8-3/4	2341	515.0	844	86.1	759	77.5
72	9	2467	542.7	888	90.6	800	81.6
75	9-3/8	2686	590.9	965	98.4	868	88.6
80	10	3045	669.9	1093	111.5	984	100.4
85	10-5/8	3450	759.0	1239	126.4	1115	113.8
88	11	3685	810.7	1326	135.3	1194	121.8
90	11-1/4	3868	851.0	1355	138.3	1219	124.4
95	11-3/4	4309	948.0	1512	154.3	1361	138.9
96	12	4378	963.2	1555	158.7	1399	142.8
100	12-1/2	4773	1050.1	1681	171.5	1513	154.3
104	13	5145	1131.9	1806	184.3	1626	165.9
112	14	5964	1312.1	2104	214.7	1893	193.2
120	15	6846	1506.1	2344	239.2	2110	215.3

* MBF : Minimum Breaking Force according to ISO2307.

** LDBF: Line Design Break Force according to OCIMF MEG4 appendix B.

●如果需要其它尺寸,可以根据客户要求定制。 ● Other sizes are available upon request.

FBR-POWERMONO® ROPE /FBR-POWERMULTI® ROPE

丙纶单丝缆绳/丙纶复丝缆绳



密度:0.91g/cm³	Specific Gravity:0.91g/cm³ floating
熔点:165°C	Melting Point :165°C
伸长率:12%	Elongation : 12%
耐磨性:一般	Abrasion Resistance : Normal
抗紫外线:弱	UV Resistance : Weak
抗化学物质腐蚀:好	Chemical Resistance : Good

丙纶单丝缆绳广泛应用于系泊缆领域,强度和伸长率在干态和湿态时基本保持一致,使用轻便,耐化学腐蚀,沥水性好,需要避光保存。丙纶复丝缆绳沥水性一般,手感光滑,柔软吸水,由“浮水尼龙”之称。

应用领域:港口拖缆,航运,远洋捕捞,深海养殖

FBR-POWERMONO® ROPE:

This rope is widely used as mooring line, it has same strength either under wet condition or normal condition. It is easy operation, chemical corrosion resistance, drain well, keep in dark place.

FBR-POWERMULTI® ROPE:

This rope is easy to handle , it feels soft and smooth , and absorbs water , known as " Floating nylon ".

Application: Marine mooring, sea farming, pelagic fishing

8-STRAND AND 12-STRAND 八股、十二股参数表

尺寸 Size		重量 Weight		断裂强力* ISO MBF		断裂强力** MEG4 LDBF	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton	千牛 kN	吨 ton
24	3	260	57.2	93	9.5	84	8.6
28	3-1/2	355	78.1	124	12.6	111	11.4
32	4	460	101.2	163	16.7	147	15.0
36	4-1/2	586	128.9	198	20.2	179	18.2
40	5	718	158.0	245	25.0	221	22.5
44	5-1/2	881	193.8	292	29.8	263	26.8
45	5-5/8	924	203.3	307	31.3	276	28.2
48	6	1040	228.8	350	35.7	315	32.1
50	6-1/4	1130	248.6	371	37.9	334	34.1
52	6-1/2	1220	268.4	414	42.3	373	38.0
55	6-7/8	1380	303.6	446	45.5	401	40.9
56	7	1420	312.4	467	47.6	420	42.9
60	7-1/2	1630	358.6	525	53.6	473	48.2
64	8	1850	407.0	583	59.5	525	53.6
65	8-1/8	1924	423.3	602	61.4	542	55.3
68	8-1/2	2095	460.9	659	67.3	593	60.5
70	8-3/4	2260	497.2	698	71.2	628	64.1
72	9	2340	514.8	735	75.0	662	67.5
75	9-3/8	2585	568.7	816	83.2	734	74.9
80	10	2910	640.2	933	95.2	840	85.7
85	10-5/8	3285	722.7	1043	106.4	939	95.8
88	11	3510	772.2	1108	113.1	998	101.8
90	11-1/4	3668	807.0	1182	120.6	1064	108.5
95	11-3/4	4099	901.8	1306	133.2	1175	119.9
96	12	4160	915.2	1307	133.3	1176	120.0
100	12-1/2	4530	996.6	1429	145.8	1286	131.3
104	13	4860	1069.2	1540	157.1	1386	141.4
112	14	5680	1249.6	1750	178.6	1575	160.7
120	15	6510	1432.2	1983	202.4	1785	182.1

* MBF : Minimum Breaking Force according to ISO2307.

** LDBF: Line Design Break Force according to OCIMF MEG4 appendix B.

●如果需要其它尺寸,可以根据客户要求定制。 ● Other sizes are available upon request.

FBR-POWERTWIN® ROPE

双层多股编织绳

POLYESTER DOUBLE BRAIDED ROPE

涤纶双层编织缆绳

尺寸 Size		重量 Weight		断裂强力* ISO MBF		断裂强力** MEG4 LDBF	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton	千牛 kN	吨 ton
40	5	1280	281.6	360	36.7	324	33.1
44	5-1/2	1540	338.8	432	44.1	389	39.7
48	6	1840	404.8	511	52.2	460	46.9
52	6-1/2	2160	475.2	597	60.9	537	54.8
56	7	2500	550.0	687	70.1	618	63.1
60	7-1/2	2870	631.4	786	80.2	707	72.1
64	8	3260	717.2	889	90.7	800	81.6
68	8-1/2	3695	812.9	1000	102.0	900	91.8
72	9	4130	908.6	1111	113.4	1000	102.0
76	9-1/2	4615	1015.3	1239	126.4	1115	113.8
80	10	5100	1122.0	1367	139.5	1230	125.5
84	10-1/2	5635	1239.7	1506	153.6	1355	138.3
88	11	6170	1357.4	1644	167.8	1480	151.0
92	11-1/2	6760	1487.2	1794	183.1	1615	164.8
96	12	7350	1617.0	1944	198.4	1750	178.6
100	12-1/2	7985	1756.7	2106	214.9	1895	193.4
104	13	8620	1896.4	2267	231.3	2040	208.2
108	13-1/2	9310	2048.2	2439	248.9	2195	224.0
112	14	10000	2200.0	2611	266.4	2350	239.8
116	14-1/2	10750	2365.0	2800	285.7	2520	257.2
120	15	11500	2530.0	2989	305.0	2690	274.5

POLYAMIDE AND POLYESTER DOUBLE BRAIDED ROPE

锦纶(尼龙)涤纶双层编织缆绳

尺寸 Size		重量 Weight		断裂强力* ISO MBF		断裂强力** MEG4 LDBF	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton	千牛 kN	吨 ton
40	5	1133	249.3	400	40.8	360	36.7
44	5-1/2	1405	309.1	479	48.9	431	44.0
48	6	1688	371.4	564	57.6	508	51.8
52	6-1/2	2003	440.7	652	66.5	587	59.9
56	7	2328	512.2	745	76.0	671	68.4
60	7-1/2	2755	606.1	848	86.5	763	77.9
64	8	3172	697.8	956	97.6	860	87.8
68	8-1/2	3560	783.2	1074	109.6	967	98.6
72	9	4000	880.0	1198	122.2	1078	110.0
76	9-1/2	4483	986.3	1332	135.9	1199	122.3
80	10	5197	1143.3	1466	149.6	1319	134.6
84	10-1/2	5732	1261.0	1612	164.5	1451	148.1
88	11	6174	1358.3	1763	179.9	1587	161.9
92	11-1/2	6729	1480.4	1910	194.9	1719	175.4
96	12	7320	1610.4	2056	209.8	1850	188.8
100	12-1/2	7984	1756.5	2305	235.2	2074	211.7
104	13	8658	1904.8	2486	253.6	2237	228.3
108	13-1/2	9360	2059.2	2683	273.8	2414	246.4
112	14	10092	2220.2	2880	293.9	2592	264.5
116	14-1/2	10855	2388.1	3093	315.7	2784	284.1
120	15	11618	2556.0	3307	337.4	2976	303.7

POLYAMIDE DOUBLE BRAIDED ROPE

锦纶(尼龙)双层编织缆绳

尺寸 Size		重量 Weight		断裂强力* ISO MBF		断裂强力** MEG4 LDBF	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton	千牛 kN	吨 ton
40	5	1101	242.2	400	40.8	360	36.7
44	5-1/2	1326	291.7	479	48.9	431	44.0
48	6	1578	347.2	564	57.6	508	51.8
52	6-1/2	1848	406.6	652	66.5	587	59.9
56	7	2143	471.5	745	76.0	671	68.4
60	7-1/2	2460	541.2	848	86.5	763	77.9
64	8	2798	615.6	956	97.6	860	87.8
68	8-1/2	3160	695.2	1074	109.6	967	98.6
72	9	3542	779.2	1198	122.2	1078	110.0
76	9-1/2	3958	870.8	1332	135.9	1199	122.3
80	10	4375	962.5	1466	149.6	1319	134.6
84	10-1/2	4828	1062.2	1612	164.5	1451	148.1
88	11	5298	1165.6	1763	179.9	1587	161.9
92	11-1/2	5796	1275.1	1910	194.9	1719	175.4
96	12	6295	1384.9	2056	209.8	1850	188.8
100	12-1/2	6791	1494.0	2305	235.2	2074	211.7
104	13	7336	1613.9	2486	253.6	2237	228.3
108	13-1/2	7919	1742.1	2683	273.8	2414	246.4
112	14	8502	1870.4	2880	293.9	2592	264.5
116	14-1/2	9134	2009.5	3093	315.7	2784	284.1
120	15	9766	2148.6	3307	337.4	2976	303.7

MIXED POLYESTER AND POLYPROPYLENE DOUBLE BRAIDED ROPE

聚酯聚丙烯混合双层编织缆绳

尺寸 Size		重量 Weight		断裂强力* ISO MBF		断裂强力** MEG4 LDBF	
直径 mm Dia.	圆周 Inch Cir.	米重 g/m	kg/220m	千牛 kN	吨 ton	千牛 kN	吨 ton
40	5	1050	231.0	315	32.1	283	28.9
44	5-1/2	1282	282.0	375	38.3	338	34.5
48	6	1509	332.0	433	44.2	390	39.8
52	6-1/2	1732	381.0	511	52.1	460	46.9
56	7	2091	460.0	581	59.3	523	53.4
60	7-1/2	2350	517.0	659	67.2	593	60.5
64	8	2609	574.0	756	77.1	680	69.4
68	8-1/2	2960	651.0	844	86.1	759	77.5
72	9	3310	728.0	932	95.1	839	85.6
76	9-1/2	3696	813.0	1031	105.2	928	94.7
80	10	4082	898.0	1130	115.3	1017	103.8
84	10-1/2	4471	983.5	1250	127.6	1125	114.8
88	11	4859	1069.0	1370	139.8	1233	125.8
92	11-1/2	5305	1167.0	1500	153.1	1350	137.7
96	12	5750	1265.0	1630	166.3	1467	149.7
100	12-1/2	6275	1380.5	1750	178.6	1575	160.7
104	13	6800	1496.0	1870	190.8	1683	171.7
108	13-1/2	7321	1610.5	2010	205.1	1809	184.6
112	14	7841	1725.0	2150	219.4	1935	197.5
116	14-1/2	8416	1851.5	2310	235.7	2079	212.1
120	15	8991	1978.0	2470	252.0	2223	226.8

FBR-TAIL&SHACKLES

组合尾缆

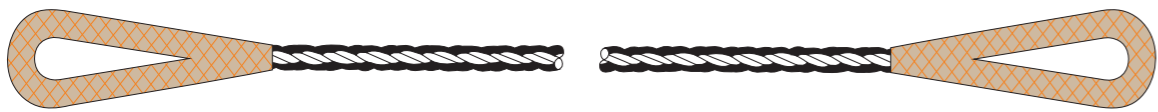
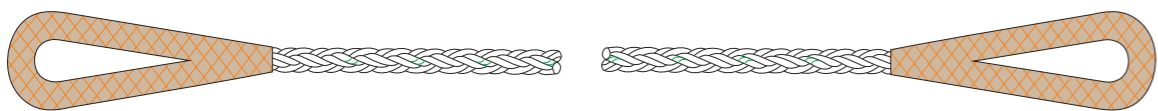
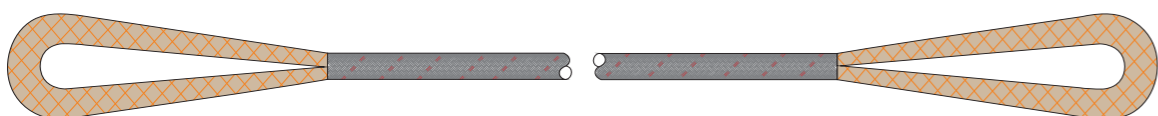
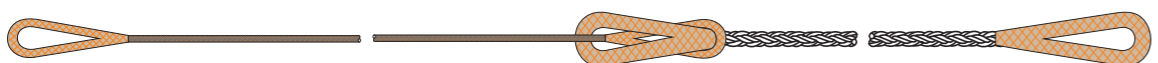


产品特点:

材质为尼龙、涤纶或者聚酯聚丙烯混合纤维；
高伸长率；
总长11米，两端琵琶头1.8米；
眼环用帆布护套作为保护处理；
符合OCIMF MEG4的要求。

Features :

- * Made by Nylon fiber , Polyester fiber or Powermixed (Polyolefin & Polyester blended)fiber
- * High elongation
- * Finished length : 11 meters , 1.8 meters eye spliced on both ends
- * Canvas cover protection on eyes
- * In compliance with OCIMF MEG4 .



系泊卸扣

镀锌的钢质系泊卸扣紧凑型的设计主要应用于连接钢丝绳和化纤绳.有三种规格分别是90T,120T和180T,300T也可以(化纤绳此处连接在插销部位,钢丝绳连另一头)。

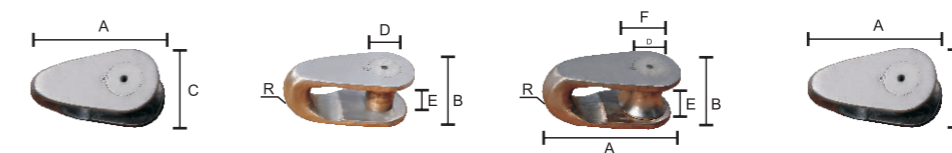
应用领域:一般大型油轮组合系泊

Mooring Shackle

Galvanized steel mooring shackle, compact design which is mainly used in connecting wire rope with fiber rope. There are three kinds of specifications, including 90T,120T and 180T,300T as well(fiber rope connect to the bolt part, and wire rope connect to the other end).

Application: General large tanker combination mooring

系泊卸扣 MOORING SHACKLE



LINK 90T	LINK 120T	LINK 180T	SHACKLE 90T	SHACKLE 120T
TAIL(链接)56-68mm	TAIL(链接)72-80mm	TAIL(链接)88-112mm	TAIL(链接)56-64mm	TAIL(链接)68-80mm
A=285mm	A=324mm	A=350mm	A=255mm	A=300mm
B=115mm	B=142mm	B=184mm	B=97mm	B=121mm
C=136mm	C=150mm	C=160mm	C=120mm	C=130mm
D=65mm	D=75mm	D=85mm	D=65mm	D=82mm
E=75mm	E=90mm	E=120mm	E=67mm	E=90mm
R=22mm	R=28mm	R=30mm	F=100mm	F=128mm
"BREAKING LOAD(破断拉力)"	"BREAKING LOAD(破断拉力)"	"BREAKING LOAD(破断拉力)"	"BREAKING LOAD(破断拉力)"	"BREAKING LOAD(破断拉力)"
90 Tones	120 Tones	180 Tones	90 Tones	120 Tones
PROOF LOAD(标准负荷)	PROOF LOAD(标准负荷)	PROOF LOAD(标准负荷)	PROOF LOAD(标准负荷)	PROOF LOAD(标准负荷)
55 Tones	70 Tones	95 Tones	55 Tones	70 Tones
WEIGHT(重量)	WEIGHT(重量)	WEIGHT(重量)	WEIGHT(重量)	WEIGHT(重量)
11.2kg	16.9kg	25.0kg	7.8kg	13.3kg

我公司生产的尾缆一般选用尼龙、涤纶或者聚酯混纺材料制成,总长11米,两端琵琶头1.8米,连接处至少插5花,用涤纶布或者PVC套作为保护处理。

The mooring tails is produced by Nylon, Polyester or Mixed material. The length should be 11 meters with 1.8m PVC or canvas chafe guard at each ends. The splicing part should be with at least 5 stacks.

名称Item	尺寸 Size		重量 Weight	断裂强力 ISO MBF		断裂强力 MEG4 LDBF	
	直径 mm Dia.	圆周 Inch Cir.		千牛 kN	吨 ton	千牛 kN	吨 ton
尼龙8股 FBR-POWER NYLON® ROPE 8-STRAND	64	8	2520	1021	104.1	1532	156.2
	72	9	3300	1337	136.4	2006	204.6
	80	10	4030	1632	166.5	2448	249.8
	88	11	4780	1850	188.8	2775	283.2
	96	12	5690	2100	214.2	3150	321.3
尼龙12股 FBR-POWER NYLON® ROPE 12-STRAND	64	8	2520	1021	104.1	1532	156.2
	72	9	3300	1337	136.4	2006	204.6
	80	10	4030	1632	166.5	2448	249.8
	88	11	4780	1850	188.8	2775	283.2
	96	12	5690	2100	214.2	3150	321.3
涤纶8股 FBR-POWER POLYESTER® ROPE 8-STRAND	64	8	3110	1064	108.5	1596	162.8
	72	9	3930	1344	137.1	2016	205.7
	80	10	4850	1659	169.3	2489	254.0
	88	11	5870	2008	204.9	3012	307.4
	96	12	6990	2202	224.7	3303	337.1
涤纶12股 FBR-POWER POLYESTER® ROPE 12-STRAND	64	8	3110	1064	108.5	1596	162.8
	72	9	3930	1344	137.1	2016	205.7
	80	10	4850	1659	169.3	2489	254.0
	88	11	5870	2008	204.9	3012	307.4
	96	12	6990	2202	224.7	3303	337.1
聚酯聚丙烯混合8股 FBR-POWER-MIXED® ROPE 8-STRAND	64	8	2260	698	71.2	1047	106.8
	72	9	2840	874	89.2	1311	133.8
	80	10	3490	1059	108.1	1589	162.2
	88	11	4200	1280	130.6	1920	195.9
	96	12	5000	1519	155.0	2279	232.5
聚酯聚丙烯混合12股 FBR-POWER-MIXED® ROPE 12-STRAND	64	8	2260	698	71.2	1047	106.8
	72	9	2840	874	89.2	1311	133.8
	80	10	3490	1059	108.1	1589	162.2
	88	11	4200	1280	130.6	1920	195.9
	96	12	5000	1519	155.0	2279	232.5

●如果需要其它尺寸,可以根据客户要求定制。●Other sizes are available upon request.

ROPE WEAR PROTECTION SHEATH

缆绳防磨护套

魔术贴护套:

超高分子量聚乙烯或者涤纶材质
可拆卸,易更换
耐磨抗紫外线

Hook & Loop Protection :

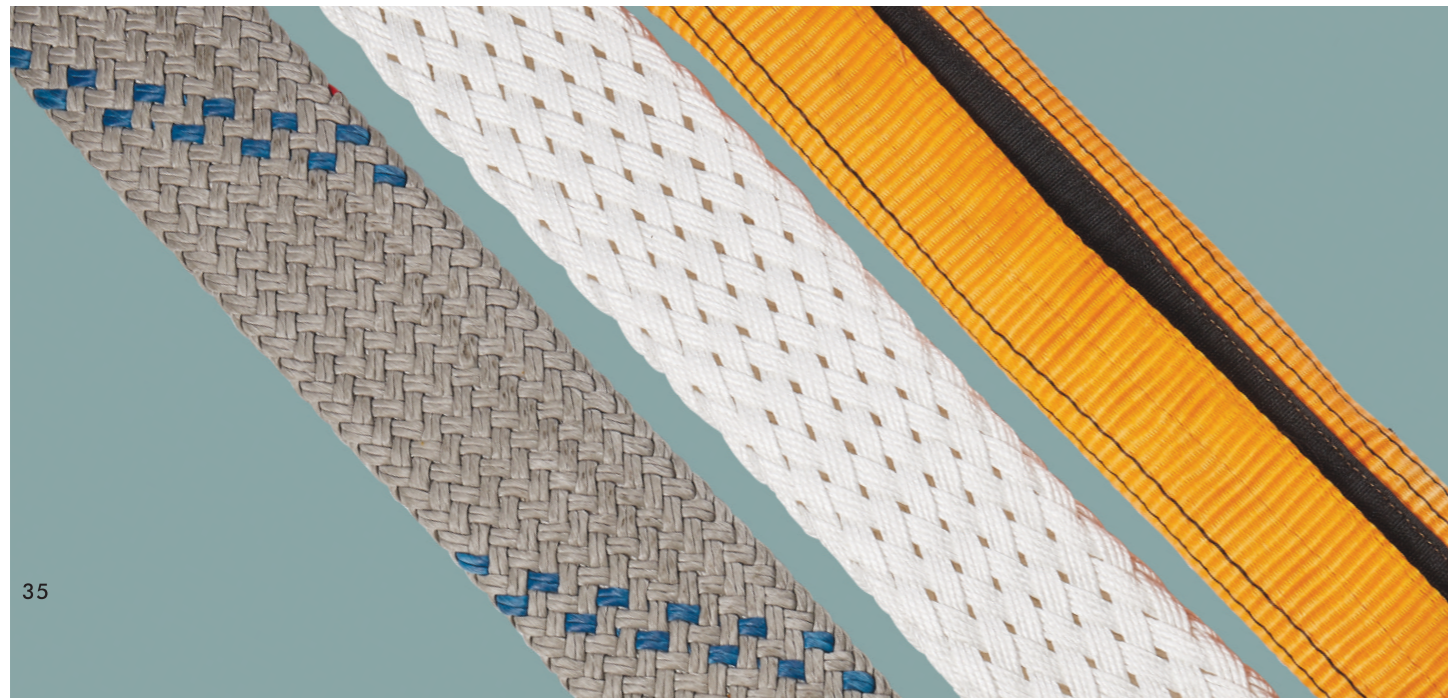
Made by HMPE fiber or Polyester fiber
Easy to replace and takedown
Very good abrasion resistance and UV resistance

编织型护套:

轻质
易检查
无需拆卸
可现场修复

Web Protection:

Light weight
Easy to check flaw
Needless to takedown
Easy to repair on spot



HOOK & LOOP PROTECTION : 魔术贴护套

尺寸 Size	匹配缆绳的直径 Fits Rope Diameter	
	Inches	Millimeter mm
MA	3-1/8~4-3/8	25-35
MB	4-1/2~6-1/4	36-50
MC	6-3/8~7-1/2	51-60
MD	7-5/8~8-3/4	61-70
ME	8-7/8~10	71-80
MF	10-1/8~11-1/4	81-90
G(定制)	>11-1/4	>90

●如果需要其它尺寸,可以根据客户要求定制。 ●Other sizes are available upon request.

WEB PROTECTION: 编织型护套

尺寸 Size	匹配缆绳的直径 Fits Rope Diameter	
	Inches	Millimeter mm
NA	2-3/4~3-3/4	22-30
NB	3-7/8~5	31-40
NC	5-1/8~9	41-72
ND	9-1/8~12	73-96

●如果需要其它尺寸,可以根据客户要求定制。 ●Other sizes are available upon request.

FBR-POWERTWIST® ROPE 3-4-6 STRAND

小规格捻绳3-4-6股

三股、四股、绳索多为小规格彩色绳索。

常见材料有聚丙烯, 聚乙烯, 高性能聚丙烯, 聚酯, 聚酯混纺, 聚酰胺(尼龙)等。

应用领域: 船用系泊、造船、深浅海养殖、远洋渔业、矿山、水利工程、工业吊装等

FBR-POWERTWIST® ROPE 3-4-6 STRAND

FBR-Powertwist rope is produced by HTPP, PE, PP Daline, Polyester, PP/polyester mixed or Polyamide (Nylon). It's small size and commonly used in ship mooring, shipbuilding, deep sea farming, pelagic fishing, mine, water conservancy projects, industrial lifting, etc.



FBR-POWERTWIST® ROPE 3-4-6 STRAND

小规格捻绳3-4-6股

尺寸 Size		丙纶绳 pp rope		高性能丙纶绳 powerdan® rope		高性能聚酯混和绳 power-mixed® rope		尼龙绳 nylon rope		聚乙烯绳 polyethylene rope		涤纶绳 polyester rope	
直径 mm Dia.	圆周 Inch Cir.	重量 kg/220m weight	强力 MBL ton	重量 kg/220m weight	强力 MBL ton	重量 kg/220m weight	强力 MBL ton	重量 kg/220m weight	强力 MBL ton	重量 kg/220m weight	强力 MBL ton	重量 kg/220m weight	强力 MBL ton
4	1/2	1.32	0.21	1.68	0.30	2.00	0.30	2.31	0.32	1.78	0.20	2.60	0.30
6	3/4	3.74	0.60	3.78	0.70	4.70	0.90	4.95	0.75	4.00	0.40	6.00	0.56
8	1	6.60	1.06	6.72	1.30	8.30	1.60	8.80	1.35	7.20	0.70	10.60	1.02
10	1-1/4	9.90	1.56	10.50	1.80	12.40	2.40	13.60	2.08	10.80	1.09	16.70	1.59
12	1-1/2	14.30	2.21	15.12	2.60	17.90	3.40	19.60	3.00	15.80	1.54	24.20	2.27
14	1-3/4	20.00	3.05	20.58	3.60	25.00	4.70	27.00	4.10	21.00	2.09	32.60	3.18
16	2	25.30	3.78	26.88	4.50	31.60	5.90	35.00	5.30	28.00	2.80	43.00	4.10
18	2-1/4	32.50	4.82	34.02	5.70	40.60	7.50	44.00	6.70	35.00	3.50	54.00	5.15
20	2-1/2	40.00	5.80	42.00	6.80	50.00	9.00	54.00	8.30	44.50	4.30	67.00	6.40
22	2-3/4	48.40	6.96	50.82	8.20	60.50	10.70	66.00	10.00	53.00	5.10	81.00	7.60
24	3	57.00	8.13	60.48	9.60	71.30	12.60	78.00	12.00	65.00	6.10	96.00	9.10
26	3-1/4	67.00	9.41	70.98	11.10	83.80	14.60	92.00	14.00	72.00	7.00	113.00	10.70
28	3-1/2	78.00	10.70	82.32	12.60	97.50	16.60	107.00	15.80	86.00	8.20	131.00	12.20
30	3-3/4	89.00	12.20	94.50	14.40	111.30	18.90	122.00	17.80	101.00	9.50	150.00	13.70
32	4	101.00	13.50	107.52	15.90	126.30	20.90	139.00	20.00	115.00	10.70	171.00	15.70
36	4-1/2	129.00	16.90	136.08	19.90	161.30	23.30	176.00	24.90	145.00	13.40	216.00	19.40
40	5	158.00	20.50	168.00	24.20	200.00	26.20	218.00	30.00	173.00	16.30	267.00	24.00
44	5-1/2	194.00	24.60	203.28	29.00	245.00	28.80	264.00	35.80	209.00	19.60	323.00	28.50
48	6	229.00	28.60	241.92	33.70	290.00	32.10	312.00	42.00	253.00	22.80	385.00	33.60
52	6-1/2	268.00	33.10	283.92	39.10	330.00	35.10	365.00	48.80	290.00	26.40	451.00	39.20
56	7	312.40	39.59	329.27	50.50	393.80	62.04	442.20	61.53	345.40	30.51	523.60	48.57
60	7-1/2	358.60	45.41	378.00	58.28	441.10	70.54	497.20	68.95	398.20	34.95	600.60	55.44
64	8	407.00	51.33	430.08	65.20	497.20	79.05	554.40	77.14	451.00	39.39	684.20	62.83
65	8-1/8	420.42	52.96	443.94	67.25	512.60	81.43	572.00	79.59	465.85	40.64	706.20	63.22
70	8-3/4	487.74	61.33	514.92	77.49	591.80	93.81	664.40	91.83	540.09	46.89	817.30	72.78
72	9	514.80	64.59	544.32	81.58	624.80	99.06	726.00	97.65	569.80	49.39	864.60	77.00
75	9-3/8	561.66	70.10	590.94	88.59	677.60	106.93	761.20	102.39	620.95	53.52	937.86	83.52
80	10	640.20	79.39	671.99	100.38	767.80	120.07	886.60	121.31	706.20	60.41	1067.00	98.48
85	10-5/8	722.70	89.29	758.93	113.77	865.42	135.70	979.00	135.32	798.33	68.00	1205.60	107.92
88	11	772.20	95.20	813.12	121.80	924.00	145.08	1051.60	145.35	853.60	72.55	1291.40	115.00
90	11-1/4	808.50	99.69	850.92	124.42	968.00	151.84	1097.80	151.74	853.60	72.55	1350.80	120.29
95	11-7/8	899.14	111.02	947.94	138.86	1078.00	168.72	1223.20	169.07	997.10	84.29	1507.00	132.81
96	12	915.20	113.27	967.67	142.80	1100.00	172.10	1251.80	173.60	1014.20	85.50	1537.80	135.52
100	12-1/2	997.70	120.92	1050.00	154.35	1194.60	187.11	1355.20	186.69	1100.44	92.80	1667.60	149.28

●如果需要其它尺寸,可以根据客户要求定制。 ● Other sizes are available upon request.

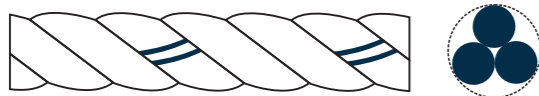
HOW TO ORDER

如何下订单

- 1 缆绳的材料:**
Material:
超高分子量聚乙烯, 芳纶, 高性能聚酯聚丙烯混合, 聚丙烯, 聚乙烯, 聚酰胺(尼龙), 聚酯(涤纶), 其它。
HMPE, Aramid, Power-mixed, Polyethylene, Polypropylene, Polyamide(Nylon), Polyester, Others.

- 2 结构:**
Construction:

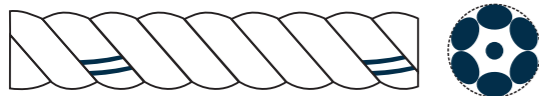
三股 3-Strand



四股 4-Strand



六股 6-Strand



八股 8-Strand

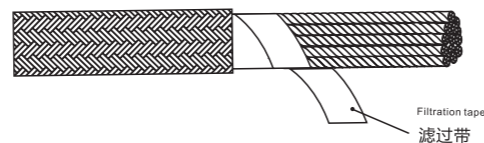


十二股 12-Strand



平行结构防泥沙缆绳

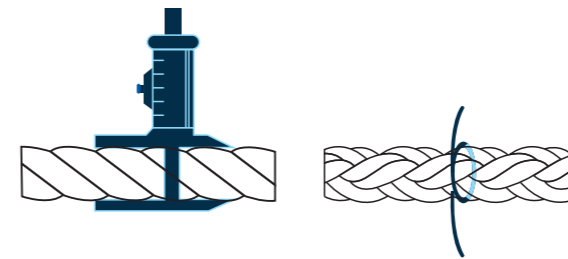
Mooring rope for offshore stationkeeping - Polyester



多股双编绳
Double Braided Rope



- 3 尺寸: 直径, 周长**
Size: Diameter(mm) Circumference(inch)



- 4 捻向:**
Direction of Twist:

"Z"捻向
"Z" twist



"S"捻向
"S" twist



- 5 绳子捻度: 软, 中, 硬, 非常硬。**
Degree of Twist: Soft, Medium, Hard, Extra Hard.

- 6 包装**
PACKING

- 7 长度: 米, 英尺, 码。**
Length: Meter, Foot, Yard.

- 8 最小破断拉力: 整绳最小破断拉力或
计算破断拉力(千牛或吨)。**
Minimum of calculated breaking load in KN or Tons.

- 9 颜色: 任何颜色。**
Color: Any color is available.

- 10 如果有其他任何特殊要求, 请提前通知我们。**
If customer has any special requirement please inform us in advance.

注意事项 Notes

1.根据绳子的使用载荷、作业方法和使用条件选择合适的绳子。使用之前及使用过程中要注意检查绳子有无损坏。
It is important to choose the right rope for the job. Factors to be considered include working load, how the rope is used and the environment it is exposed to. Always examine for any damage before and during the use of a rope.

2.在解开绳子时, 请注意缠绕方向, 以避免歪曲变形。"Z"捻向应当按逆时针方向, "S"捻向应当按顺时针方向。
Pay attention to the twist and rotating directions when you uncoil a rope. To avoid inducing twists, a rope with "Z" twist should always be uncoiled counterclockwise while a rope with "S" twist should always be uncoiled clockwise.

3.请不要在绳子底下进行作业, 避免发生突发性的安全事故。
Do not work directly under any rope in use to avoid any accidents.

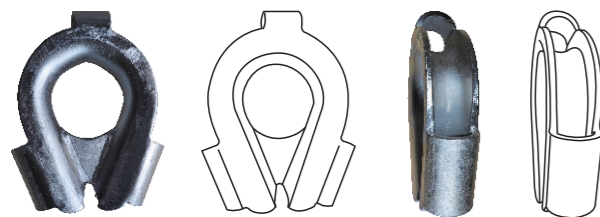
4.在锋利边缘使用的绳子, 要注意在边缘部分安装保护设施以避免绳子被破坏。
Protect any rope from sharp edges.

5.当连接绳子的时候, 索眼的加工过程要精确。
Follow only the manufacturer provided splicing instructions carefully and precisely to be sure that ropes are properly terminated and connected before use.

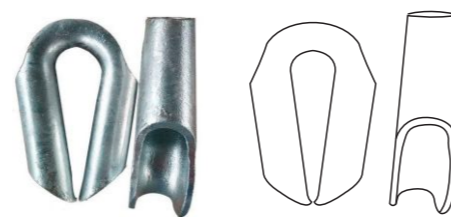
6.避免绳子处在高温状态, 防止发生强度下降及变质现象。
Ropes should not be exposed to high temperatures which will degrade ropes.

7.化学纤维绳索应贮存在远离热源、无阳光直射、通风干燥、无腐蚀性化学物质的场所, 防止老化变质。堆放过程中应注意防潮防水, 尼龙一类产品遇水后强度会下降, 并产生僵硬等现象, 不易操作, 请注意保管。

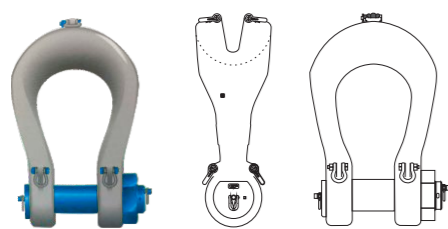
Synthetic fiber ropes should be kept away from heat, direct sunlight, chemical and corrosive substances. Ropes should be stored in a dry environment with good ventilation. Specifically, water can reduce the strength of Nylon ropes and make the ropes stiff, leading to difficulty operation. Proper storage of Nylon ropes can prevent these issues.



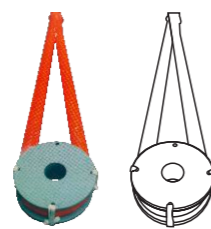
护绳三角环 I 型 Retaining ring I



护绳三角环 II 型 Retaining ring II



宽体卸扣 Wide shackle



滚轮 Roller



D型卸扣 D type shackle